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## ecology and environment, inc.

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International Specialists in the Environmental Sciences

### M E M O R A N D U M

DATE: December 4, 1984

TO: Andy Hafferty and Jeff Villnow

FROM: Bill Ritthaler *BR*

SUBJ: Tier 2A Dioxin Investigations

RE: TDD No. R10-8410-13 St. John's Landfill  
TDD No. R10-8410-14 Resource Recovery Landfill

CC: Dave Buecker, RPM

Congratulations!! You have each been selected to act as project managers for Tier 2A Dioxin Investigations. The sites you have been assigned are approved hazardous waste sites which have or may have received for disposal 2,3,T,8, TCDD or other associated dioxin isomers.

The purpose of our investigation is to determine and quantify whether or not dioxin contamination may be migrating from these sites via, groundwater, leachate or other means.

We have committed to EPA that we will submit no later than 3/15/84 draft sampling/workplans for these investigations. However, we have also established that we will provide a status update to EPA by sometime in mid December (15th). This status update should provide the following information.

1. Completed a thorough review of all EPA files which have been provided to us at this time.
2. Identify areas where specific information may be lacking i.e., waste generators, wastes suspected to contain dioxins, disposal locations of these wastes on-site, sampling data, investigations or studies conducted by other agencies (Oregon DEQ, Washington DOE) or contractors.
3. Development of a conceptual (rough) sampling/workplan which will identify the methodology and resources necessary to determine whether or not dioxin contaminants are migrating from the site.

These sites should be considered to be highly visible/sensitive within EPA and associated state, local agencies as well as John Q. Public.



Tier 2A Dioxin Investigations

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o During the course of the development of the sample/workplan, in particular the QAPP made every effort to incorporate Lazar Gorelik into the process.

I have attached copies of your respective TDD's and will also give you the files provided to us by EPA. These files represent the seem of information available at EPA here in Seattle, so insure that none of this information is misplaced or lost.


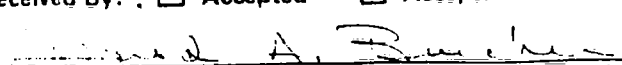
As you can see by the estimate of technical hours identified on the TDD, these sites will involve a significant amount of time and resources.

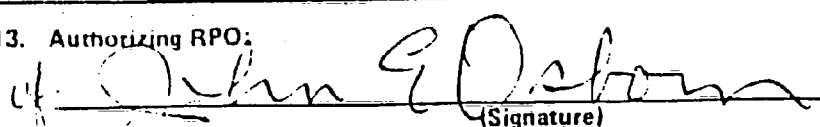
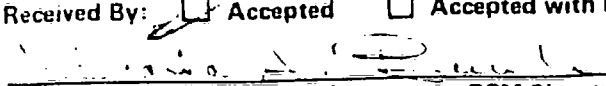
Please, contact me for any assistance or questions related to these activities. If you feel that you need to contact EPA to answer any particular questions, Lori Cohen is our prime contact at 442-2712.

BR:pc  
attachment

ROUGH OUTLINE FOR  
EPA MID-DECEMBER MEETING

- I. Prepare a site map or aerial photo of the site (There should be a pretty good map or photo within the EPA files).
  1. Identify if possible locations on site where suspected dioxin wastes may be buried.
  2. Identify if possible the location of wells on-site as well as off-site which we would consider sampling.
  3. Identify if possible obvious surface run off areas or surface waters (streams, etc.) which might act as routes for migration.
- II. Discuss rationale for method's of monitoring considered for the investigation.
  1. Placement of new wells v.s. use of existing wells.
  2. Soil borings
  3. Air monitoring
  4. Surface Soil Sampling
- III. Prepare Milestone Chart something like:
  1. Complete Background Collection
  2. Prepare detailed Sampling/Workplan
  3. Perform On-Site Work
    - A. Install monitoring wells/collect soil borings concurrently.
    - B. Collect samples from obvious run-off areas on-site.
    - C. Collect off-site soil samples
    - D. Collect samples from off-site wells.
- IV. Identify obvious areas where we are missing information.
  1. Past investigations
  2. Waste types, quantities, location on-site
  3. Sample data, etc.

1. Cost Center CH-633-10	REM/FIT ZONE II CONTRACT CONTRACT NO. 68-01-6692 <b>TECHNICAL DIRECTIVE DOCUMENT (TDD)</b>			2. <span style="float: right;"><i>R. T. Miller / H. J. Kelly</i></span>  No. <u>R10-8410-14</u>
1A. Account No.				
3. Priority: <input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	4. Estimate of Technical Hours  <u>1000</u> 4A. Estimate of Subcontract Cost  <u>\$10,000</u>	5. EPA Site ID  5A. EPA Site Name <u>Resource Recovery Landfill</u>	6. Completion Date:  <u>6/85</u>	7. Reference Info: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Attached <input type="checkbox"/> Pick Up
8. General Task Description: _____ <u>Tier 2A dioxin sampling of soils, sediments, and water at Resource Recovery</u> <u>Landfill, Pasco, WA</u>				
9. Specific Elements: _____ <u>1). Obtain and review all records and environmental baseline information</u> <u>2). Conduct reconnaissance visit for development of sampling workplan including appropriate interviews</u> <u>3). Develop sampling workplan with concurrence from EPA</u> <u>4). Fieldwork</u> <u>5). EPA Contacts: J. Osborn 442-0837</u> <u>B. Eusebio 442-1491</u> <u>* Kari Cohen 442-2712</u> <u>Al Goodman</u>			10. Interim Deadlines <u>4-26-85 Final Sampling Plan due to EPA.</u>	
11. Desired Report Form: <input checked="" type="checkbox"/> Formal Report <input type="checkbox"/> Letter Report <input type="checkbox"/> Formal Briefing  Other (Specify): _____				
12. Comments: _____ _____ _____				
13. Authorizing RPO: <div style="text-align: center;">         (Signature)     </div>			14. Date: <u>10/24/84</u>	
15. Received By: <input type="checkbox"/> Accepted <input type="checkbox"/> Accepted with Exceptions <input type="checkbox"/> Rejected <div style="text-align: center;">         (Contractor RPM Signature)     </div>			16. Date: <u>10/19/84</u>	

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3. Priority: <input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	4. Estimate of Technical Hours 1000 4A. Estimate of Subcontract Cost \$10,000	5. EPA Site ID  5A. EPA Site Name St. John's Landfill	6. Completion Date: <div style="font-size: 1.5em; text-align: center;">8/05 4</div>	7. Reference Info: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Attached <input checked="" type="checkbox"/> Pick Up
8. General Task Description: Tier 2A dioxin sampling of soils, sediments and water at St. John's Landfill, Portland, Oregon.				
9. Specific Elements: 1). Obtain and review all records and environmental baseline Information 2). Conduct reconnaissance visit for development of sampling workplan including appropriate interviews 3). Develop sampling workplan with concurrence from EPA 4). Fieldwork 5). EPA Contacts: J. Osborn 442-0837 B. Eusebio 442-1491 * Lori Cohen 442-2712			10. Interim Deadlines 4-26-85 Final sampling plan due to EPA 3/15/84 draft due EPA Report X	
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12. Comments: _____ _____ _____				
13. Authorizing RPO: <div style="font-size: 1.2em; text-align: center;">           (Signature)       </div>			14. Date: <div style="font-size: 1.2em; text-align: center;">10/24/84</div>	
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